Serial No.: 10/532,040 Filed: December 30, 2005

Page : 2 of 9

## Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

## Listing of Claims

- 1. (Currently Amended) A transgenic mouse, the nucleated cells of which comprise a transgene, said transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bcl-2 family, wherein said transgenic mouse exhibits expanded plasma cell and mature B cell populations and elevated serum levels of IgM, IgG1, IgG2b, IgA, and IgE isotypes as compared with a corresponding wild-type mouse, wherein said transgenic mouse is capable of surviving at least 60 days, and wherein a serum sample from said transgenic mouse does not exhibit a clonal spike of gamma immunoglobulin.
- (Cancelled)
- (Previously Presented) The transgenic mouse of claim 1, wherein said anti-apoptotic
  polypeptide is selected from the group consisting of Bcl-2, Bcl-xL, Bcl-W, and Mcl-1.
- (Previously Presented) The transgenic mouse of claim 1, wherein said anti-apoptotic
  polypeptide is a human Bcl-xL polypeptide.
- (Previously Presented) Progeny of the transgenic mouse of claim 1, wherein the nucleated cells of said progeny comprise said transgene.
- 6. (Previously Presented) An isolated cell of the transgenic mouse of claim 1.
- 7. (Original) The cell of claim 6, wherein said cell is a plasma cell.
- (Previously Presented) The transgenic mouse of claim 1, wherein said transgene further comprises a kappa promoter operably linked to a nucleic acid sequence encoding said antiapoptotic polypeptide.

Serial No.: 10/532,040 Filed: December 30, 2005

Page: 3 of 9

9. (Withdrawn) A transgenic rodent, the nucleated cells of which comprise:

(a) a first transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bel-2 family; and

- (b) a second transgene comprising a B cell developmentally regulated transcriptional enhancer sequence operably linked to a proliferative oncogene nucleic acid sequence, wherein said transgenic rodent contains a plasma cell tumor.
- (Withdrawn) The transgenic rodent of claim 9, wherein said proliferative oncogene nucleic acid sequence is ras.
- 11. (Withdrawn) The transgenic rodent of claim 9, wherein said proliferative oncogene nucleic acid sequence is myc.
- 12. (Withdrawn) The transgenic rodent of claim 9, wherein said B cell developmentally regulated transcriptional enhancer sequence is an immunoglobulin kappa light chain 3' enhancer sequence.
- 13. (Withdrawn) The transgenic rodent of claim 9, wherein said B cell developmentally regulated transcriptional enhancer sequence is an immunoglobulin heavy chain enhancer sequence.
- 14. (Withdrawn) The transgenic rodent of claim 9, wherein said anti-apoptotic polypeptide is selected from the group consisting of Bcl-2, Bcl-xL, Bcl-W, and Mcl-1.
- (Withdrawn) The transgenic rodent of claim 9, wherein said anti-apoptotic polypeptide is a human Bcl-xL polypeptide.
- 16. (Withdrawn) Progeny of the transgenic rodent of claim 9, wherein said progeny comprise said first transgene and said second transgene.
- 17. (Withdrawn) An isolated cell of the transgenic rodent of claim 9.

Serial No.: 10/532,040 Filed: December 30, 2005

Page : 4 of 9

18. (Withdrawn) The cell of claim 17, wherein said cell is a plasma cell.

19. (Withdrawn) A method for identifying an agent that inhibits development of a plasma cell tumor, said method comprising:

- a) administering a test agent to a transgenic rodent, the nucleated cells of which comprise
- (i) a first transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bel-2 family; and
- (ii) a second transgene comprising a B cell developmentally regulated transcriptional enhancer sequence operably linked to a proliferative oncogene nucleic acid sequence, wherein said transgenic rodent develops a plasma cell tumor in the absence of pharmacological intervention; and
- b) determining if said test agent inhibits development of said plasma cell tumor in said transgenic rodent as compared with a corresponding transgenic rodent to which said test agent has not been administered.
- 20. (Withdrawn) A method for identifying an agent for treating a plasma cell tumor, said method comprising:
  - a) administering a test agent to a transgenic rodent, the nucleated cells of which comprise
- (i) a first transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bel-2 family; and
- (ii) a second transgene comprising a B cell developmentally regulated transcriptional enhancer sequence operably linked to a proliferative oncogene nucleic acid sequence, wherein said transgenic rodent exhibits a plasma cell tumor; and
- b) determining if said test agent slows tumor growth, stops tumor growth, reduces tumor size, or decreases plasma cell number in said transgenic rodent as compared with a corresponding transgenic rodent to which said test agent has not been administered.
- (Withdrawn) A method for producing polyclonal antibodies, said method comprising immunizing a transgenic rodent, the nucleated cells of which comprise a first transgene, said first

Serial No.: 10/532,040 Filed: December 30, 2005

Page : 5 of 9

transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bel-2 family, wherein said transgenic rodent exhibits an expanded plasma cell and mature B cell population as compared with a corresponding wild-type rodent; and harvesting said polyclonal antibodies.

- 22. (Withdrawn) The method of claim 21, wherein said transgenic rodent further comprises a second transgene, said second transgene comprising a B cell developmentally regulated transcriptional enhancer sequence operably linked to a proliferative oncogene nucleic acid sequence, wherein said transgenic rodent exhibits a plasma cell tumor.
- 23. (Withdrawn) A transgenic rabbit, the nucleated cells of which comprise a transgene, said transgene comprising an immunoglobulin kappa light chain 3' enhancer sequence operably linked to a nucleic acid sequence encoding an anti-apoptotic polypeptide in the Bel-2 family, wherein said transgenic rabbit exhibits expanded plasma cell and mature B cell populations as compared with a corresponding wild-type rabbit.
- 24. (Withdrawn) The transgenic rabbit of claim 23, wherein said anti-apoptotic polypeptide is selected from the group consisting of Bcl-2, Bcl-xL, Bcl-W, and Mcl-1.
- (Withdrawn) The transgenic rabbit of claim 23, wherein said anti-apoptotic polypeptide is a human Bcl-xL polypeptide.
- (Withdrawn) Progeny of the transgenic rabbit of claim 23, wherein the nucleated cells of said progeny comprise said transgene.
- 27. (Withdrawn) An isolated cell of the transgenic rabbit of claim 23.
- 28. (Withdrawn) The cell of claim 27, wherein said cell is a plasma cell.
- 29. (Withdrawn) The transgenic rabbit of claim 23, wherein said transgene further comprises a kappa promoter operably linked to a nucleic acid sequence encoding said anti-apoptotic polypeptide.

Serial No.: 10/532,040 Filed: December 30, 2005

Page : 6 of 9

30. (New) The transgenic mouse of claim 1, wherein said transgenic mouse further exhibits kidney pathology.

- 31. (New) The transgenic mouse of claim 1, wherein said transgenic mouse further exhibits lymphocytic pathology.
- 32. (New) The transgenic mouse of claim 1, wherein said transgenic mouse produces more T-cell independent antigen-specific immunoglobulin after antigenic challenge than a corresponding wild-type mouse.